

# FURMAN

# P-1800 PF R

# PRESTIGE SERIES

POWER CONDITIONER/SURGE SUPPRESSOR



*Furman's exclusive SMP Technology provides the highest level of surge & spike protection available*



*LiFT offers linear AC power filtering to ensure clean power for unequaled audio & video clarity*



*Advanced EVS circuitry detects dangerous voltage irregularities and safely powers down itself and connected equipment in unsafe conditions*



*Power Factor Technology supplies 45+ amps of instantaneous reserve current, on demand, for power starved amplifiers*



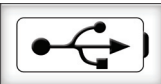
*Clear Tone Technology provides tuned filtering circuits engineered for instrument amplifiers to provide a clean and consistent tone*



*Large digital voltmeter with discrete dimmer button displays incoming line voltage*



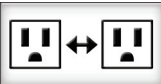
*Protection OK, Extreme Voltage and color-coded voltage range indicators provide information on power quality and operational status of unit*



*Front panel USB convenience outlet allows you to charge most media devices or power a USB lamp*



*Isolated outlet banks minimize inter-component interference and noise contamination*



*Three widely spaced rear panel outlets accommodate bulky AC power transformers with "Secure Straps" plug locking system*



*15 amp rating featuring a high inrush magnetic circuit breaker for added protection*



*Nine total outlets (8 rear panel outlets and one front panel convenience outlet)*



*Rear panel BNC connector powers any standard gooseneck lamp for rear rack illumination (Lamp sold separately)*



## SMP (Series Multi-Stage Protection)

Audio/Video professionals can never accept down time, corrupted data, or unreliability. It is for this reason that a virtually non-sacrificial transient voltage surge suppression systems, such as SMP, is the best choice for critical applications. With Furman's SMP, there is zero downtime. In fact, these circuits can typically handle multiple 6000 volts or 3000 amp pulses without sustaining any damage.



## LiFT (Linear Filtering Technology)

With Furman's LiFT, differential AC noise is reduced linearly, across a very wide bandwidth, even extending into the video frequencies. This results in a lower noise floor for your audio system, improved picture on your video display, and protection from possible data corruption and losses caused by low-level differential AC noise fed into digital systems.



## EVS (Extreme Voltage Shutdown)

Furman's EVS constantly monitors incoming voltage, and once any overvoltage condition over 140 volts AC is detected, a relay opens which immediately shuts down the unit and all connected equipment. An indicator light informs the user there is a problem, and once the condition has been corrected, the unit may be reset and will operate normally.



## Power Factor Technology

Your amp needs a lot of power to sound its best. If you're plugging into the wall, there's a good chance your amp is not going to get the current it needs when pushed. Furman's exclusive Power Factor Technology provides a 45A peak current reservoir to give your amp the headroom it needs to operate at maximum efficiency. No matter what venue or club, or how close or far away from the power panel, Furman's Power Factor Technology keeps your instrument amplifier's tone consistent and sounding it's best.

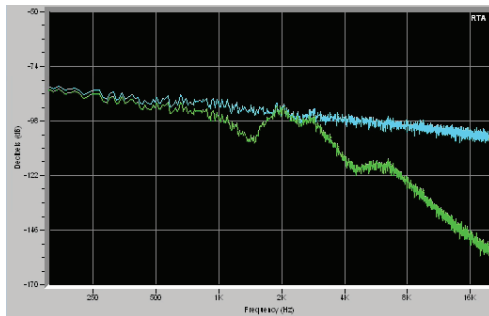


## Clear Tone Technology

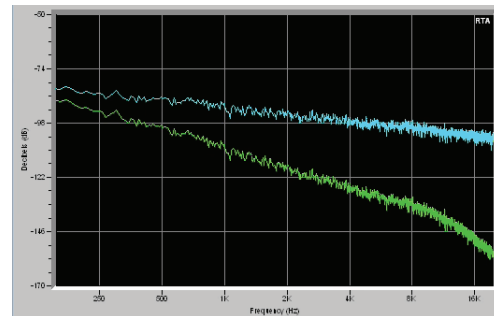
Clear Tone Technology works in unison with Power Factor Technology and Linear Filtering Technology to add an additional layer of AC noise filtration specifically engineered for instrument amplifiers. Clear Tone Technology provides tuned circuits that unveil instrument tone, harmonics, and clarity, resulting in a fuller sound and improved dynamic response.

### Real-Time AC Noise Filtering Analysis - Decibel Level vs. Frequency

Blue Line: Input AC, Green Line: Output AC (Post-Filter)



Output of real-time noise analysis software, showing the noise attenuation curve of a standard AC noise filter. Note the uneven shape of the output curve (the green line).



Output of the same analysis using Furman's Linear Filtering Technology. As you can see, the output noise attenuation curve is smooth and linear, without the resonant peaking seen in the standard filter.

## SPECIFICATIONS

MAXIMUM CURRENT:  
15 AMPS

LINE CORD:  
CAPTIVE 3/14 AWG, 10 FT, BLACK CORD WITH NEMA 15 PLUG

BNC SOCKET WITH SWITCH FOR REAR RACK LAMP:  
12VAC 500MA MAX (LAMP NOT INCLUDED)

OPERATING VOLTAGE:  
90 TO 139 VAC

OVER VOLTAGE SHUTDOWN:  
140 VAC NOMINAL

SPIKE PROTECTION MODES:  
LINE TO NEUTRAL, ZERO GROUND LEAKAGE

SPIKE CLAMPING VOLTAGE:  
188 VAC PEAK @ 3,000 AMPS

RESPONSE TIME:  
1 NANOSECOND

MAXIMUM SURGE CURRENT:  
6,500 AMPS

NOISE ATTENUATION:  
30 DB @ 2KHZ, 40 DB @ 10KHZ, 50 DB @ 20KHZ, 70 DB @ 100KHZ

DIMENSIONS:  
19" W X 12" D X 1.75" H (483MM W X 305MM D X 45MM H)

WEIGHT:  
13 LBS.

POWER CONSUMPTION (NO LOAD):  
8 WATTS

REACTIVE POWER:  
460 VA

